IN BROOKLYN'S SHOW

Appliances of All Kinds Worth \$1,000,000 Placed in Ice Palace.

BIG ANTENNAE ON ROOF

Programs From Every Distributing Station Will Be Heard.

CONTESTS ARE ARRANGED

Boy Scouts Will Compete for Prizes for Best Receiving Sets.

parently, of nearby States. Their

million dollars' ess apparatus. Moreequipment was for sale as well nstration purposes. Apto catch up on the demand rege hat overpowered their big plants dur-

tubes to the lowly crystal de-There are A batteries, B batter-tectors, amplifiers, transmitters, a wire, societs, loud speakers, in-glightning switches, head phones, me cabinet sets, inexpensive circuit sets, rheostats, vario transformers, tickler coils, volt-s, loose couplers, variometers, mers, tickler coils, voltmeters, sers and text books. The only that was missing was an Alex-by, alternator, which requires freight cars for shipment and re was left out by mutual con-

addition, various contests will con-ne until the end of the show, and ex-its of interest for those who are installing sets. One is

of a lightning arrester and promining the use of gas pipes as ground connection for this safety device. Preference for the ground connection is given to water pipes, but the steel frames of buildings, pipes driven into the ground, plates buried in the ground, &c., are permitted.

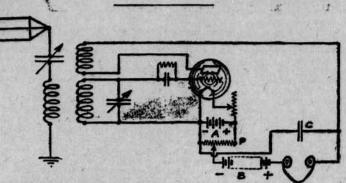
The rules provide also that aerial

The rules provide also that aerial wires outside the house shall not cross over or under power or lighting circuits of 600 voits or more; that lead in wires of 600 volts or more; that lead in wires shall not be smaller than No. 14 copper or No. 17 approved copper clad; that grounding switches are desirable but do not obviate the necessity of lighning arresters, and that inside wires shall not come closer to electric light or power wires than two inches unless separated by a "continuous" non-conductor.

One contest that is arousing keen interest in all that attended yesterday, but narticularly among the boys, was the property of the matter clear as a fairy "To make the matter cl

EVERYTHING IN RADIO TUNING VACUUM DETECTOR DR. FOREST PREDICTS EVENTS OF THE WEEK **EXPLAINED BY ENGINEER**

Best Signals Will Be Obtained Only When Filament Rheostat Is Burning at Proper Brilliancy-Tickler 'Also To Be Adjusted.



brighter than necessary. If it is, its life will be shortened greatly. The cor-rect brilliancy is one not quite as bright as the ordinary incandescent lamp fila-

This feature is called regeneration. It adds to te sensitiveness of the set enormously. It consists usually of a coll whose electrical relation to the tuning ufacturers are on the demand regeneration coil.

Apcoil can be adjusted. This coil is called the tickler coil, intensity coil, or the

lice Palace has been transformed beautiful garden, and there is no of frost such as might be exfrom its name. A canopy of brown covers the roof, and pergolas, arranged in four long are the booths in which the ma-

20,000,000 RADIOS

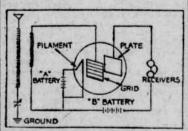
ESTIMATES MILLION NOW

Leaves Message for Boston Exposition Before Sailing

in that within two years there 5,000,000, and by 1927, 20,000,000 over the length and width

RADIO FAIRY STORY TELLS HOW VACUUM TUBE DETECTS

Western Electric Engineer's Tale of Little Daemon's Set Gives a New Thrill to Skeptical Campers. Throwing Pebbles at Window Shutter Helps Clear Mystery for Amateurs.



influents. The engineer finally mapped paraging by a continuous one-conductory of the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys, was used to be the particularly among the boys and the other for the particularly and the other for the best control of the particularly and the best particularly and the best particularly and the best particularly and the best particularly and the boys and the best particularly and the boys and the boys and the best particularly and the best particularly and the best particularly and the boys and the best particularly and the boys and the boys and the best particularly and the boys and the best particularly and the boys and the boys and the best particularly and the boys an

The engineer made a good job of it, although the had to go way back to griding in the installation and instruct radio owners concerning the new rules of the board.

Must Be Lightning Arrester.

The experts told hundreds yesterday that the most important changes in the rules are those requiring the installation of a lightning arrester and prohibiting part was easy—he had done it before—the use of gas pipes as ground connection for this safety device. Preference

will get through to the plate. The effect would be the same as though the slats in Figure 2 were entirely closed.

"Now, you are all familiar, no doubt, with the way the sound waves produce electrical pulsations in the ordinary telephone line. The same sort of pulsations are produced in the high frequency currents which are sent out from the radio transmitting station. These pulsations are, of course, very weak because of the long distance they have traveled through the ether, and the purpose of the vacuum tube is to amplify or strengthen them so they will be audible.

"While it takes considerable power to open and close the slats of a window blind, especially if you have just painted them yourself last spring, the operation of the electric shutter is frictionless and eyen the weak impulses of speech transmitted through the ether are sufficient to give the desired results so that as each increase or decrease of current raises or lowers the negative potential of the shutter or grid, more or less electrons with their infinitesimal charge of electricity get through from the red and give exactly where of electricity get through from the red and give exactly the plate and give exactly the plate



Inventor Says Five Years Will Show That Many Listeners in United States.

for Germany.

vacuum tube oscillates, or becomes a small generator of high frequency current, and this current goes out on the aerial and causes waves just like a sending station, and other receiving stations within a distance or one or two miles will be interfered with by it.

Whenever you hear on your set whits lips sound.

Whenever you hear on your set whist-ng sounds which come and go varying pitch, you may know that some re-iving stations near you are radiating this way because their ticklers are rned up too far.

PARTY IN MAINE WOODS HEARS NEWARK EASILY

Maine guides get many surprises but ery little pleasure from the multitude f contrivances people from the city ring with them on hunting and fishing

power houses.

To Camp Scott, a log cabin near Rock.
wood, Me., owned by Col. Walter Scott
of New York city, a radio set was
taken. The owner, his son-in-law and
daughter, Mr. and Mrs. Russell Magna

ing has invented a new radio receiving set which, according to a statement made yesterday by his firm, Satteriee Radio, Inc., is giving remarkable results. Major-Gen. George O. Squier of the Army Signal Corps has pronounced it an important invention.

IN THE RADIO FIELD

Concert by the Liederkranz Singing Society of Elizabeth To Be Broadcasted To-night at WJZ-Three Musical Programs by WGY.

The programs for the week of the arious broadcasting stations which can be beard within a radius of several hunged miles of New York are presented erewith. During the week THE NEW ORK HERALD will print the daily programs of the stations each morning. grams of the stations each morning.
Times given are daylight saving.
Tune instruments for 360 meter waves,
except in the case of WVP, which sends
on 1,450 meters.

Station WJZ, Newark. (Westinghouse). WEEKDAYS.

A. M.—Agricultural reports and prices as released by the New York, New Jersey, Federal Agricultural Bureaus; musical pro-

writers.

5:00 P. M.—Recital by Mabel Empie, American soprano; Miss Florence Best, accompanist. Program: "Rose in the Bud."
Dorothy Forster: "Just You," H. Burleigh:
"Southern Lullaby," R. H. Terry; "Aria from Cavalleria," Mascagni: "Un donz ilen." Delbruck, "La Colòmba, Kutt Schindler: "Le Soir, "Christian Kriens; "There is No Death," Geoffrey O'Hara, "There is No Death," Geoffrey O'Hara, "Thyraelt," Rhea Siberta: "Crown" (Spiritual) Geoffrey O'Hara, "There Thrill of You," anawood: "Come Love Mr. That Nighpool, "Smilin Thrill" Penn, Concert by Conard Morriell, tener soloist of Dr. Cad-Backlyn: Edward Schloss, accompanist, Program: "Come Love Me," Vanderpool; "Morning," Speaks; "In Native Worth," Craation-Hayden; "The Lilac Tree," Gartlan; "There Is No Death," O'Hara; "I'l Sing Thee Songs of Araby, "Clay; "Vestila Gaccio); "I Wonder If You Still Care," Snyder.

9:15 P. M.—Recital by Rosa Low, lyric so-

accio): "I Wonder II Itsus accio): Snyder ...
Snyder ...
115 P. M.—Recital by Rosa Low, lyric soprane, who recently gave a recital at the White House.

TUESDAY.

white House.

TUESDAY.

7.00 P. M.—"Man in the Moon" stories (c)
Newark Sunday Call.
7.20 P. M.—"Do You Use Your Labor Savers." by Miss Mildred Maddocks, chairman of the hoard. Good Housekeeping Institute.
8.00 P. M.—Concert by the Philharmonic Society of the Oranges (the concert is composed of about forty players who are business.

R. Bergmann, conductor: E. Berthold, connect master. Program: "La Rolling of Realty's Exps." cornet solo. The Cranges. R. Bergmann, conductor: E. Berthold, connect master. Program: "La Rolling of Saba." Marche et Cortege, Gount of the Connect master. Program: "La Rolling Saba." Marche et Cortege, Gount of Cortes of WEDNESDAY.

Vincent; courtesy New York Evening Telegram.

[230 P. M.—"Palestine," by Gunston Agrensky, New York representative of the H. A. A. fetz, Jerusalem.

[250 P. M.—"Palestine," by Gunston Agrensky, New York representative of the H. A. A. fetz, Jerusalem.

[260 P. M.—Concert by Mr. and Mrs. Richard Bonelli, courtesy of C. M. Drake.

[270 P. M.—Concert by the Cosmopolitan Saxophone Choir Rodger E. Haller, soprano, Frank Jannitti, tenor: N. D. Campbell, tenor: Thomas Suyder, melody: Albert Dobbelasr, alto: Ed. F. De Mott, alto; D. J. Barteigee, alto: Charles E. Abaie (leader), alto: Michael Coningswood, barytone Charles L. Haller, bass: Joseph Lauf, drums and traps. Program: "Stony Point," march, L. P. Laurendeau, "Invercargill," march, Alex F. Lithgow; "Asleep in the Deep," bailad, Petric, "The Shots," Ted Snyder: "Solltude," K. K. King: "Khaki Bill," H. L. Watson; "A Night in June," K. I. King: Leave Me With a Smile, Needler and Burnott. "That's How I Beleve in You, Bert Rule, "Comedy Tom," Gus King: finsle, Samuel Danks.

SUNDAY.

(Wanamaker).

(Accompany)

(Wanamaker).

(Amrad).

(Wanama

ody
Saturday and Sunday, at 1:30 F M., EastThomas:

TUESDAY.

8:45 P. M.—Concert (program provided through the courtesy of the Emma Willard Conservatory of Troy, N. V): Plano solos, St. (a) "Improvisation," MacFayden: (b) "Trepsichorean Vindshona" No. 13, Godowla sity, Miss Bestrice Colwell. Baritone solo, "Give a Man a Horse He Can Ride," Geoffer O'ur Garden "Conservatory of Troy, N. V): Plano solos, "Give a Man a Horse He Can Ride," Geoffer o'ur Garden "Conservatory of Troy, N. V): Plano solo, "Give a Man a Horse He Can Ride," Geoffer o'ur Garden "Conservatory o'ur department, frey O'Hara, John Bezferd, Violin solo, "Indian Lament, Kreisler, Miss Sophie Adler, Readings, (a) "Bill Awkins," Kipling (b) "Funsy Wuzzy," Kipling Miss Elizabeth Ann Hill of Russell Sage College, Alto solo, "Gavotte" from Mignon, Thomas: Miss Helen Ford, Plano solo, prelude G minor, Raschmaninoff, Joseph Lee, Tenor solo, "Ah, Moon of My Deight, "from the "Persian Garden," Lehmani Bart Dunn, Soprano solo, "Spring Song" from "Shanewis," Cadmann, Miss Mildred Schilling, Violin solo, "March Studies," Cadmann, Miss Mildred Schilling, Violin solo, "March Schilling, Violin solo, "The Great Awakening, Kranner, Miss Julia Walsh, Tenor solo, "Raner, Miss Julia Walsh, Tenor solo, "Raner,

Theresa Maier.

THURSDAY.

15. P. M.—Fox trot. "Golden Melody." Antonio Gaganucci, MacDeermott's Orchestra; R. E. MacDermott, planist W. J. Healy. E. Von Hyning, violins: T. Nessler, cornet J. Maily, cello: C. Rowe, saxophone: J. R. Matthews, banjo; C. B. Roberts, flute; K. E. Sneil, bass; E. G. Shear, xylophone and drums. Fox trot. "Venetian Love Boat" (hyrequest). Feist MacDermott's Orchestra. Tenor solo, "Might I March Through Life Again," Needham Ernest Griffiths Waltz. "Moon River." Davis MacDermott's Orchestra. Tenor solo, "Might I March Through Life Again," Needham Ernest Griffiths Waltz. "Moon River." Davis MacDermott's Orchestra. Ireling G. Bullock. Fox trot, "Teashing" (by request). Stern. MacDermott's Orchestra, featuring Mr. Shear, xylophonist. Address, "Hospitals and Their Sorvice, introducing National Hospital Day, May 12. Tenor solo, "O. Sole Mio' in Italian). Di Capua: Mr. Griffiths. Medley of nopular airs from Henbius thy request). Al Johon. MacDermott's Orchestra. Fluor solo, "O. Solo Mio' in Italian). Di Capua: Mr. Griffiths. Medley of nopular airs from Henbius thy request). Al Johon. MacDermott's Orchestra. Fluor solo, "O. Solo Mio' in Italian). Di Capua: Mr. Griffiths. Medley of nopular airs from Henbius. thy request). Al Johon. MacDermott's Orchestra. Fluor solo, "O. Pausing Wasses, "December & Mr. Bullock Fox trot, "By the Sapphire Seas." Whit mark: MacDermott's Orchestra. Fox trot, "Furner solo; "O. Sternott's Orchestra. Furner solo; "O. Sternott'

Station KDKA, Pittsburgh (Westinghouse).

SUNDAY.

"Hoston Normal School Maron, Mulrey Mulrey J. O'Brien, lyric sopraus, accompanied by Marion (iii).

8-15-Front's Bostonian Orchestra.
FRIDAY.

8-00- The Rising of the Moon, 'a one and Irish comedy, by Lady Gregory, read by Prof. Albert Hatton Glimer, English denartment, Tutts College.

8-15-Sara Horlich, musical reader, seconpanied by Edith Paley, pianist. Selections "When Grandma Was a Girl, 'The Little Damosel,' "Soap,' The Chinese it Damosel, "Soap,' The Chinese it Cracker. cracker.
20-Popular music. Witson's thebeuradeners. Wilcon, fulls. Valley bands.
Johnson, pince: Donocan, drucker, Tulckiesayophone, Cavvicchie, sylophone, Krugh

SATURDAY

Station WBZ, Springfield.

A most practical use of radio telephone is made by the Jersey City
Wrecking Company, employed by the
William E. Harmon Company for work
on the Gravesend race track. The
wreckers had difficulty in getting into
telephone touch with their yards on
Staten Island and in Jersey City so
are now using a radiophone. W.A.TO

